

09820747_QUAL

5825352 61
5889236 58
5943044 58
6239790 58
6323846 58
5365461 57
5844506 57
5270711 57
6222528 56
6222528 56
6288707 55
6043809 52
6061050 52
5995083 51
6064370 51
6204837 51
6724366 51
5648642 50
5841078 50
5657012 50
6137427 50
4394643 49
4771276 49
4814760 49
6424338 49
6177924 48
5488204 48
5543591 48
6028271 48
5374787 48
5495077 48
5880411 48
5543588 48
5914465 48
6239389 48
5543590 48
5861583 48
5767457 48
5805144 48
5327161 48
6107997 48
5305017 48
5757368 48
5861875 48
6031523 48
6064371 48
4550221 48
5339213 48

09820747_QUAL

6147673 48
6262717 48

47

PLUS Search Results for S/N 09820747, Searched June 14, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5825352
5889236
5943044
6239790
6323846
5365461
5844506
5270711
6222528
6222528
6288707
6043809
6061050
5995083
6064370
6204837
6724366
5648642
5841078
5657012
6137427
4394643
4771276
4814760
6424338
6177924
5488204
5543591
6028271
5374787
5495077
5880411
5543588
5914465
6239389

09820747_LIST

5543590
5861583
5767457
5805144
5327161
6107997
5305017
5757368
5861875
6031523
6064371
4550221
5339213
6147673
6262717

09820747 WEST

(5825352 5889236 5943044 6239790 6323846 5365461 5844506 5270711 62225
28 6222528 6288707 6043809 6061050 5995083 6064370 6204837 6724366 564
8642 5841078 5657012 6137427 4394643 4771276 4814760 6424338 6177924 5
488204 5543591 6028271 5374787 5495077 5880411 5543588 5914465 6239389
5543590 5861583 5767457 5805144 5327161 6107997 5305017 5757368 58618
75 6031523 6064371 4550221 5339213 6147673 6262717).pn.

09820747_EAST

(5825352
5889236
5943044
6239790
6323846
5365461
5844506
5270711
6222528
6222528
6288707
6043809
6061050
5995083
6064370
6204837
6724366
5648642
5841078
5657012
6137427
4394643
4771276
4814760
6424338
6177924
5488204
5543591
6028271
5374787
5495077
5880411
5543588
5914465
6239389
5543590
5861583
5767457
5805144
5327161
6107997
5305017
5757368
5861875
6031523
6064371
4550221
5339213

09820747_EAST

6147673
6262717) .pn.

09820747_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 09820747 on June 14, 2004

Original Classifications

10	178/18.06
10	345/173
4	178/18.01
4	345/157
4	345/163
4	345/174
2	178/18.03
2	341/33
2	341/34
2	345/168

Cross-Reference Classifications

15	345/173
10	345/157
9	178/18.01
8	178/18.03
8	341/33
8	345/174
7	345/156
6	178/18.06
3	178/19.01
3	345/159
3	345/179
2	178/18.04
2	178/18.07
2	178/19.04
2	345/158
2	345/177
2	345/856

Combined Classifications

25	345/173
16	178/18.06
14	345/157
13	178/18.01
12	345/174
10	178/18.03
10	341/33
8	345/156
5	345/163
3	178/19.01
3	341/34
3	345/159

09820747_CLS

3 345/168
3 345/179
2 178/18.04
2 178/18.07
2 178/19.04
2 341/20
2 345/104
2 345/158
2 345/177
2 345/856
2 361/683

09820747_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09820747 on June 14, 2004

25 345/173 (10 OR, 15 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL
 DISPLAY
 SYSTEMS
 345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/173 .Touch panel

16 178/18.06 (10 OR, 6 XR)
 Class 178 : TELEGRAPHY
 178/2R SYSTEMS
 178/18.01 .Position coordinate determination for writing
 (e.g., writing digitizer pad, stylus, or
 circuitry)
 178/18.03 ..Writing digitizer pad
 178/18.06 ...Capacitive

14 345/157 (4 OR, 10 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL
 DISPLAY
 SYSTEMS
 345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/157 .Cursor mark position control device

13 178/18.01 (4 OR, 9 XR)
 Class 178 : TELEGRAPHY
 178/2R SYSTEMS
 178/18.01 .Position coordinate determination for writing
 (e.g., writing digitizer pad, stylus, or ci
 rcuitry)

12 345/174 (4 OR, 8 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL
 DISPLAY
 SYSTEMS
 345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/173 .Touch panel
 345/174 ..Including impedance detection

10 178/18.03 (2 OR, 8 XR)
 Class 178 : TELEGRAPHY

```

                                09820747_CLSTITLES
178/2R      SYSTEMS
178/18.01   .Position coordinate determination for writing
            (e.g., writing digitizer pad, stylus, or c
ircuityry)
178/18.03   ..Writing digitizer pad

10  341/33   (2 OR, 8 XR)
      Class 341 : CODED DATA GENERATION OR CONVERSION
      341/20   BODILY ACTUATED CODE GENERATOR
      341/22   .Including keyboard or keypad
      341/33   ..Capacitive actuation

8   345/156   (1 OR, 7 XR)
      Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
            INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY
            SYSTEMS
      345/156   DISPLAY PERIPHERAL INTERFACE INPUT DEVICE

5   345/163   (4 OR, 1 XR)
      Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
            INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY
            SYSTEMS
      345/156   DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
      345/157   .Cursor mark position control device
      345/163   ..Mouse

3   178/19.01 (0 OR, 3 XR)
      Class 178 : TELEGRAPHY
      178/2R   SYSTEMS
      178/18.01 .Position coordinate determination for writing
            (e.g., writing digitizer pad, stylus, or c
ircuityry)
      178/19.01 ..Writing digitizer stylus

3   341/34   (2 OR, 1 XR)
      Class 341 : CODED DATA GENERATION OR CONVERSION
      341/20   BODILY ACTUATED CODE GENERATOR
      341/22   .Including keyboard or keypad
      341/34   ..Pressure sensitive actuation

3   345/159   (0 OR, 3 XR)
      Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
            INTERFACE PROCESSING, AND SELECTIVE VISUAL
DISPLAY
            SYSTEMS
      345/156   DISPLAY PERIPHERAL INTERFACE INPUT DEVICE

```

09820747_CLSTITLES

345/157 .Cursor mark position control device
 345/159 ..Having variable cursor speed

3 345/168 (2 OR, 1 XR)

Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL

DISPLAY

SYSTEMS

345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/168 .Including keyboard

3 345/179 (0 OR, 3 XR)

Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL

DISPLAY

SYSTEMS

345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/179 .Stylus

2 178/18.04 (0 OR, 2 XR)

Class 178 : TELEGRAPHY

178/2R SYSTEMS

178/18.01 .Position coordinate determination for writing
 (e.g., writing digitizer pad, stylus, or

circuitry)

178/18.03 ..Writing digitizer pad

178/18.04 ...Acoustical (e.g., vibration, ultrasonic,
 etc.)

2 178/18.07 (0 OR, 2 XR)

Class 178 : TELEGRAPHY

178/2R SYSTEMS

178/18.01 .Position coordinate determination for writing
 (e.g., writing digitizer pad, stylus, or

circuitry)

178/18.03 ..Writing digitizer pad

178/18.07 ...Inductive

2 178/19.04 (0 OR, 2 XR)

Class 178 : TELEGRAPHY

178/2R SYSTEMS

178/18.01 .Position coordinate determination for writing
 (e.g., writing digitizer pad, stylus, or

circuitry)

178/19.01 ..Writing digitizer stylus

178/19.04 ...Pressure stylus

2 341/20 (1 OR, 1 XR)

09820747 CLSTITLES

Class	341	:	CODED DATA GENERATION OR CONVERSION
341/20			BODILY ACTUATED CODE GENERATOR

2	345/104	(1 OR, 1 XR)	
	Class	345	: COMPUTER GRAPHICS PROCESSING, OPERATOR
			INTERFACE PROCESSING, AND SELECTIVE VISUAL

DISPLAY

SYSTEMS

345/30		PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM
		(E.G., NON-CRT)
345/55		.Display elements arranged in matrix (e.g.,
		rows and columns)
345/84		..Light-controlling display elements
345/87		...Liquid crystal display elements (LCD)
345/104	Input/output liquid crystal display panel

2	345/158	(0 OR, 2 XR)	
	Class	345	: COMPUTER GRAPHICS PROCESSING, OPERATOR
			INTERFACE PROCESSING, AND SELECTIVE VISUAL

DISPLAY

SYSTEMS

345/156		DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
345/157		.Cursor mark position control device
345/158		..Including orientation sensors (e.g.,
		infrared, ultrasonic, remotely controlled)

2	345/177	(0 OR, 2 XR)	
	Class	345	: COMPUTER GRAPHICS PROCESSING, OPERATOR
			INTERFACE PROCESSING, AND SELECTIVE VISUAL

DISPLAY

SYSTEMS

345/156		DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
345/173		.Touch panel
345/177		..Including surface acoustic detection

2	345/856	(0 OR, 2 XR)	
	Class	345	: COMPUTER GRAPHICS PROCESSING, OPERATOR
			INTERFACE PROCESSING, AND SELECTIVE VISUAL

DISPLAY

SYSTEMS

345/700		OPERATOR INTERFACE (E.G., GRAPHICAL USER
		INTERFACE)
345/764		.On-screen workspace or object
345/856		..Cursor

2	361/683	(1 OR, 1 XR)	
	Class	361	: ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

09820747_CLSTITLES

361/600	HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE ELECTRICAL COMPONENTS
361/679	.For electronic systems and devices
361/683	..Computer related support

able 2
above 1
abstract 1
accompan 1
accompanying 1
according 4
accordingly 1
acctlrately 1
address 1
all 1
allow 1
alone 1
along 4
also 4
altemating 1
altemative 1
alterations 2
alternate 1
alternative 1
although 3
always 2
ambient 1
an 13
and 23
another 7
any 2
apparent 2
appended 1
applications 2
applied 1
are 8
arrangement 1
as 15
aspect 4
aspects 1
associated 1
at 2
attempted 1
average 1
axial 1
axis 2
back 1
backmound 1
balmer 3
banner 2
barmer 1
be 21
because 1

been 1
 below 1
 better 2
 beverages 1
 block 1
 board 1
 both 1
 brief 1
 buttons 1
 by 13
 calculated 1
 calculating 1
 called 1
 can 2
 capacitance 1
 capacitance 12
 capacitive 3
 capacitor 1
 caused 5
 causing 1
 chart 1
 circuitry 1
 circuit 2
 circuitry 1
 claimed 1
 claims 3
 combination 2
 combinations 3
 common 2
 compared 1
 computer 2
 computers 2
 conductive 7
 conductors 13
 conjunction 1
 conjunction 1
 consideration 1
 contained 1
 continue 1
 control 1
 controlling 3
 convenient 1
 corrects 1
 corresponding 1
 counting 2
 counts 1
 count 1
 counted 2

counter 1
counting 1
counts 4
coupled 2
covers 2
ctrlrsor 1
current 1
cursor 1
def 1
defined 1
defining 1
dependent 2
descdbed 1
descdption 1
description 5
design 1
detailed 3
detecting 2
detection 1
detennine 1
determinator 3
determine 1
determining 1
device 11
devices 2
dexterity 1
diagram 2
different 2
digital 1
dimensional 2
directed 2
direction 3
discussed 1
display 1
disposed 1
dnmage 1
dragging 1
drawinas 1
drawings 4
dual 2
each 8
edge 2
effects 1
either 1
electronic 1
element 1
elements 3
eliminate 1

embodiment 6
embodiments 4
enors 1
environmental 1
errors 3
example 2
exemplary 9
exnmple 1
factors 1
features 1
field 1
fig 8
figs 2
finger 19
fingertip 1
first 1
fluduations 1
fmger 1
fnzstration 1
following 2
for 19
foregoing 1
form 1
found 1
frequencies 2
frequency 3
from 8
function 1
further 1
generally 1
generate 2
generated 3
hand 2
hands 1
has 2
have 3
having 2
helpful 1
her 1
hereafter 1
herein 3
high 1
his 1
how 1
however 2
hum 1
human 3
hwention 1

hz 1
ia 1
iangtzlr 1
ib 1
ideal 1
ii 1
iidc 1
in 23
inaccurate 1
include 5
included 1
including 1
incorporate 1
independent 2
input 1
instance 2
instead 1
intended 3
interdigitated 1
interdigitating 1
interval 2
invention 15
is 20
it 2
its 2
keyboard 3
laptop 1
light 1
limitation 1
ln 1
lnvention 1
lotion 2
lt 1
ltd 6
manual 1
manufacturing 1
may 20
measured 1
measurement 1
measuring 3
mechanism 2
member 2
methods 1
metric 2
mice 1
minimized 1
mode 2
modifications 1

moditkations 1
moistness 1
more 4
moreover 1
most 1
motion 1
mouse 8
movable 1
move 1
moving 1
multiple 1
multitude 1
necessarily 1
ned 1
need 2
ng 1
nger 1
nodes 2
not 6
ntlumber 1
number 4
object 4
of 81
often 1
om 1
on 12
one 3
optimal 2
or 20
oscillator 9
oscillators 4
other 9
others 1
over 2
own 2
pad 10
pads 1
page 6
part 2
particularly 1
personal 2
place 1
plate 1
plates 5
pointing 3
portion 1
position 14
possibilities 1

potential 1
power 1
preferably 1
preferred 3
present 8
presstlre 1
pressure 3
printed 1
problems 1
processing 1
properly 1
provide 1
providing 1
pulse 4
pulses 6
quickly 1
ratio 8
rc 1
read 2
reason 1
reducing 1
refening 1
reference 1
refers 1
regat 1
rejection 1
relates 2
relative 1
relevant 1
remove 1
requency 1
require 1
requires 1
resistor 1
respective 1
respectively 1
resulting 2
results 1
rolled 1
rom 1
same 2
schematic 3
scroll 2
scrolling 10
sense 3
sensed 1
sensitive 4
sensor 1

shape 1
shaped 2
shapes 1
sharing 1
showing 3
side 1
signals 1
similar 3
simultaneously 2
size 2
skilled 1
slder 1
slider 9
sliders 1
sllm 1
so 1
some 2
source 1
specification 1
specitkation 1
spilled 1
steps 2
still 1
subcombination 1
subcombinations 1
substantial 1
such 10
sum 2
summal 1
summary 1
surface 1
switch 1
taken 1
technology 1
temperature 1
tendency 1
than 1
that 11
the 127
their 1
then 1
there 3
therefore 1
thereon 1
these 3
they 1
this 2
those 1

time 2
timing 1
tinger 1
tl 1
tmderstood 1
to 34
today 1
tolerances 1
top 3
touch 21
touching 1
traces 3
trains 1
transverse 2
triangular 4
ttratio 1
two 12
typical 1
typing 2
upon 4
use 1
used 7
user 4
users 1
using 2
utilized 1
variations 1
various 4
variously 1
via 2
view 3
views 1
way 3
wedge 1
well 1
wention 2
wheel 1
wheels 2
when 3
which 3
who 1
will 4
witcoff 6
with 11
word 1
written 1
yet 1